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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/508,934	06/02/2000	Jurgen Muller	TRW 2 256	4918

7590

11/20/2002

James W McKee
Fay Sharpe Fagan Minnich & McKee
7th Floor
1100 Superior Avenue
Cleveland, OH 44114-2518

EXAMINER

TUGBANG, ANTHONY D

ART UNIT

PAPER NUMBER

3729

DATE MAILED: 11/20/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/508,934

Applicant(s)

MULLER ET AL.

Examiner

Dexter Tugbang

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,5 and 11-19 is/are pending in the application.
- 4a) Of the above claim(s) 5 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,11-14,18 and 19 is/are rejected.
- 7) ☒ Claim(s) 15-17 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>7,8</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of the invention of Group III, Claims 11-19 in Paper No. 12 is acknowledged. The traversal is on the ground(s) that Groups I and III do not have special technical features that would make each invention distinct and therefore, should be examined together. The examiner agrees with applicant's arguments, particular in light of the amendment to Claim 1 filed 8/21/02 (Paper No. 14), which removes the distinctness between the inventions of Groups I and III. However, Group II is still distinct from the inventions of Groups I and III.

The requirement is still deemed proper and is therefore made FINAL.

2. Claim 5 has been withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 14.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 11, 12, 13, 18 and 19 are rejected under 35 U.S.C. 101 because the claims are drawn to two statutory classes of inventions, a product and a process of making.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 18 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 96/22629, referred to hereinafter as WO'629.

WO'629 discloses the final structure of a four groups of conductors on stator teeth (see Fig. 8). See MPEP § 2113.

7. Claims 1 and 11-14, 18 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Wang et al 4,426,771.

Wang discloses a coil winding method comprising: simultaneously winding or placing 2n conductors (magnet wire) onto a plurality of stator teeth (notches 11); selecting a first group of the conductors (set AC1a and AC1b) together onto a first plurality of stator teeth; selecting a second group of the conductors (set MC1a and MC1b) and assigning the second group to a second coil of the set of magnetically coupled coil pairs (see Fig. 2); performing a predetermined number of winding procedures by repeating the above steps until the predetermined number of conductors (18 poles, see col. 12, lines 25-32) are wound onto the first plurality of stator teeth to form a first magnetically coupled coil pair of the set of magnetically coupled coil pairs.

Regarding Claim 12, Wang shows in Figure 2 that each of the conductors is wound on different notches 11 with each notch being read as the “first plurality of stator teeth” and “second plurality of stator teeth”.

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Regarding Claim 13, Wang further teaches simultaneously winding the conductors onto the second plurality of stator teeth, selecting a third group of conductors (set AC2a and AC2b), and selecting a fourth group (set MC2a and MC2b) of conductors. The above steps are repeated to form the predetermined number of conductors on the second plurality of stator teeth.

Regarding Claim 14, the first plurality of stator teeth is different from the second plurality of stator teeth because the conductors of AC1a are wound around different stator teeth (notches 11) than the conductors of AC2a (see Fig. 2).

Allowable Subject Matter

8. Claims 15-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

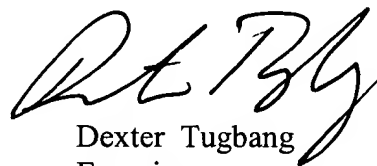
10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dexter Tugbang whose telephone number is 703-308-7599. The examiner can normally be reached on Monday - Friday 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-305-3590 for regular communications and 703-305-3588 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

A handwritten signature in black ink, appearing to read "Dexter Tugbang", is positioned above the printed name and title.

Dexter Tugbang
Examiner
Art Unit 3729

adt

November 18, 2002